

1 LISTING OF CLAIMS

2  
3 1. (Previously presented) A client-side caching system, comprising:  
4 a client for issuing a request based on a user selection for a resource on a  
5 server; and

6 a server for receiving the request and sending a response including a  
7 cookie and a client-side script to the client, wherein the cookie value represents  
8 the last version of the resource, and wherein the client-side script appends the  
9 cookie value to the request for the resource and causes the client to  
10 automatically re-request the resource with the appended cookie value so that if  
11 the last version of the resource is in the client cache, the resource is retrieved  
12 from the client cache rather than from the server, and if not, the resource is  
13 retrieved from the server.

14 2. (Original) The client-side caching system of claim 1, wherein the  
15 resource is a web page, the resource is located at a URL, and the client is a web  
16 browser with a browser cache.

17  
18 3. (Previously presented) The client-side caching system of claim 1,  
19 wherein the response includes a non-displayed relatively small page and the  
20 cookie is in a response header and the client-side script is in the entity body of  
21 the response.

22  
23 4. (Previously presented) The client-side caching system of claim 1,  
24 wherein the client-side script that appends the cookie value to the request is  
25 embedded in a displayed page.  
26  
27  
28  
29  
30

1       5.       (Previously presented) A server for a client-side caching system,  
2 comprising:

3       a server for receiving a client request for a resource, creating and inserting  
4 a cookie and a client-side script in a response to the client request, wherein the  
5 cookie value represents the last version of the resource, and wherein the client-  
6 side script appends the cookie value to the client request for the resource and  
7 causes the client to automatically re-request the resource with the appended  
8 cookie value so that if the last version of the resource is in the client cache, the  
9 resource is retrieved from the client cache rather than from the server, and if not,  
10 the resource is retrieved from the server.

11       6.       (Previously presented) The server of claim 5, wherein the server  
12 includes a web server for listening to client requests, the resource is a web page  
13 at a URL, and the client-side script appends the cookie value to the URL of the  
14 web page requested to form a rewritten URL and causes the client to  
15 automatically re-request the resource with the rewritten URL, and an application  
16 server for creating the cookie and inserting the cookie into a response header  
17 and inserting the client-side script into the entity body of the response.

18  
19       7.       (Previously presented) The server of claim 6, wherein the server sets  
20 the cookie value by determining the last modified time of each web page in the  
21 same class as the web page which is the subject of the request, and sets the  
22 cookie value to the maximum value of the last modified times.

23  
24       8.       (Previously presented) The client-side caching system of claim 2,  
25 wherein the server sets the cookie value by determining the last modified time of  
26 each web page in the same class as the web page which is the subject of the  
27 request, and sets the cookie value to the maximum value of the last modified  
28 times.

1        9.     (Previously presented) A client-side caching system, comprising:  
2        a client for issuing a request based on a user selection for a resource  
3        stored on a server and for receiving a server response including a cache control  
4        object and a client-side script, wherein the cache control object represents the  
5        correct version of the resource, and wherein the client-side script appends the  
6        cache control object value to the request for the resource, and without another  
7        user selection for the resource causes the client to automatically re-request the  
8        resource with the appended cache control object value so that if the correct  
9        version of the resource is in the client cache, the resource is retrieved from the  
10       client cache rather than from the server, and if not, the resource is retrieved from  
11       the server.

12       10.    (Previously presented) The client-side caching system of claim 9,  
13       wherein the resource is a web page located at a URL, the correct version is the  
14       last version of the resource, and the client is a web browser with a browser  
15       cache.

16       11.    (Previously presented) The client-side caching system of claim 10,  
17       wherein the request and the response are HTTP compliant, the response is a  
18       relatively small non-displayed page, the cache control object is a cookie in a  
19       response header, and the client-side script is in the entity body of the response.  
20       21

22       12.    (Previously presented) The client-side caching system of claim 9,  
23       wherein the client-side script that appends the cache control object to the request  
24       is embedded in a displayed page.  
25

26       13.    (Previously presented) The client-side caching system of claim 9,  
27       wherein Internet protocols define communication between the client and the  
28       server, and the correct version is the last version of the resource.  
29  
30

1       14. (Previously presented) The client-side caching system of claim 11,  
2 wherein the server sets the cookie value by determining the last modified time of  
3 each page in the same class as the page which is the subject of the request, and  
4 sets the cookie value to the maximum value of the last modified times.

5  
6       15. (Previously presented) A method of client-side caching in a server,  
7 comprising:  
8       receiving a client request for a web page; and  
9       inserting a cookie and a client-side script in response to the client request,  
10 wherein the cookie value represents the last version of the web page, and  
11 wherein the client-side script appends the cookie value to the client request for  
12 the web page and causes the client to automatically re-request the web page with  
13 the appended cookie value so that if the last version of the web page is in the  
14 client cache, the web page is retrieved from the client cache rather than from the  
15 server, and if not, the web page is retrieved from the server.

16  
17       16. (Previously presented) The method of claim 15, further comprising  
18 determining the last modified time of each web page in the same class as  
19 the web page which is the subject of the request, and setting the cookie value to  
20 the maximum value of the last modified times.

21       17. (Previously presented) The method of claim 15, further comprising:  
22 reviewing the extension of the requested web page to determine a run time  
23 environment;  
24 loading the run time environment; and  
25 updating a database with information from the client request.  
26  
27  
28  
29  
30

1       **18. (Previously presented) A method of client-side caching in a browser,**  
2 **comprising:**

3       **presenting a user selection for a web page at a URL; and**  
4       **receiving a server response including a cookie and a client-side script,**  
5 **wherein the cookie value represents the most recent version of the web page, and**  
6 **wherein the client-side script appends the cookie value to the URL generating a**  
7 **rewritten URL and causes the browser to automatically re-request the web page**  
8 **with the rewritten URL so that if the most recent version of the web page is in the**  
9 **browser cache, the web page is retrieved from the browser cache, and if not, the**  
10 **web page is retrieved from the server.**

11       **19. (Previously presented) A method performed in a server to implement**  
12 **client-side caching, comprising:**

13       **receiving a request from a web browser with a cache based on a user**  
14 **selection for a web page located at a URL on the server; and**  
15       **sending a response including a cookie and a client-side script to the web**  
16 **browser, wherein the cookie value represents the last version of the web page,**  
17 **and wherein the client-side script appends the cookie value to the URL of the**  
18 **requested web page to form a rewritten URL and causes the web browser to**  
19 **automatically re-request the web page using the rewritten URL so that if the last**  
20 **version of the web page is in the web browser cache, the web page is retrieved**  
21 **from the web browser cache rather than from the server, and if not, the web page**  
22 **is retrieved from the server.**

23  
24       **20. (Previously presented) The method of claim 19, wherein the client-**  
25 **side script causes the web browser to automatically re-request the web page**  
26 **without another user selection.**

27  
28       **21. (Previously presented) The method of claim 19, wherein the**  
29 **response includes a non-displayed relatively small page and the cookie is in a**  
30 **response header and the client-side script is in the entity body of the response.**

1       **22. (Previously presented) The method of claim 19, wherein the client-**  
2 **side script that appends the cookie value to the request is embedded in a**  
3 **displayed page.**